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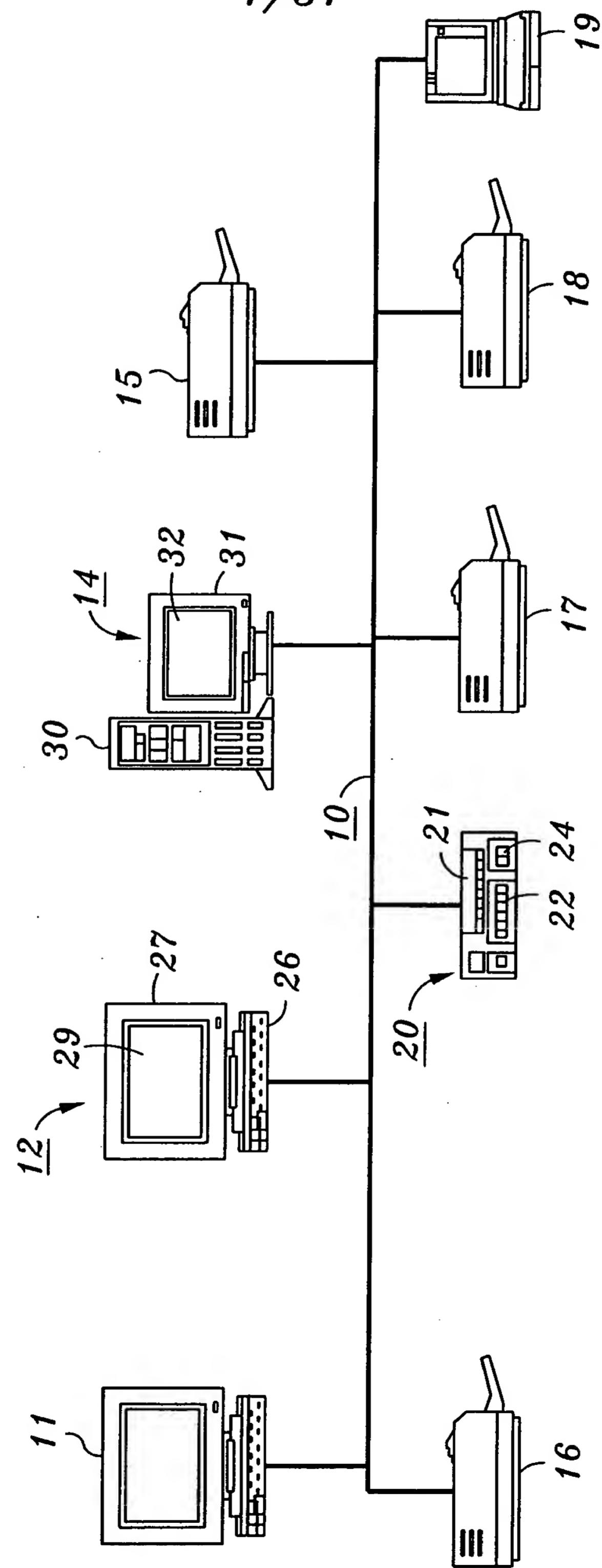


FIG. I

NETWORK MANAGEMENT DEVICE 20

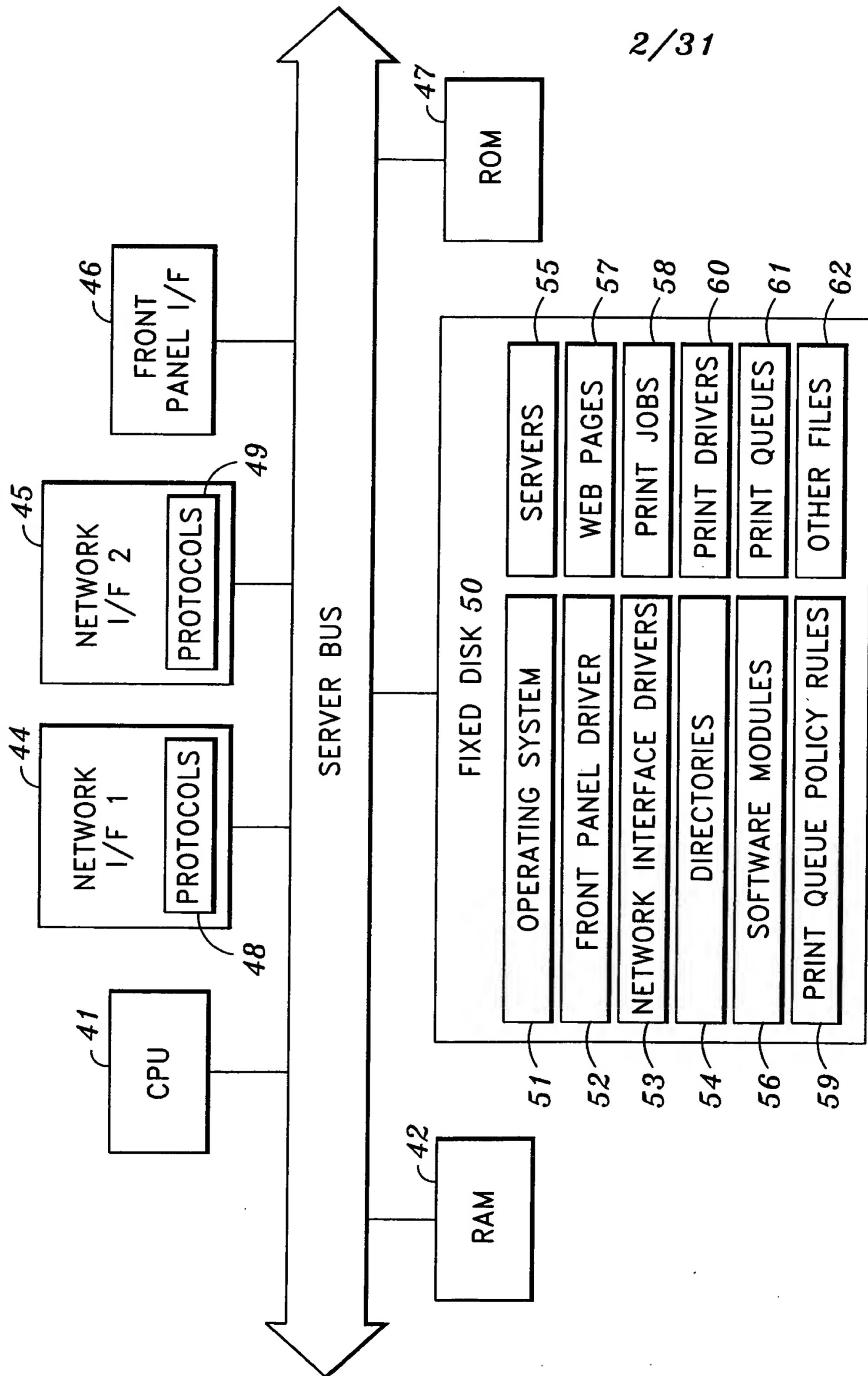


FIG. 2

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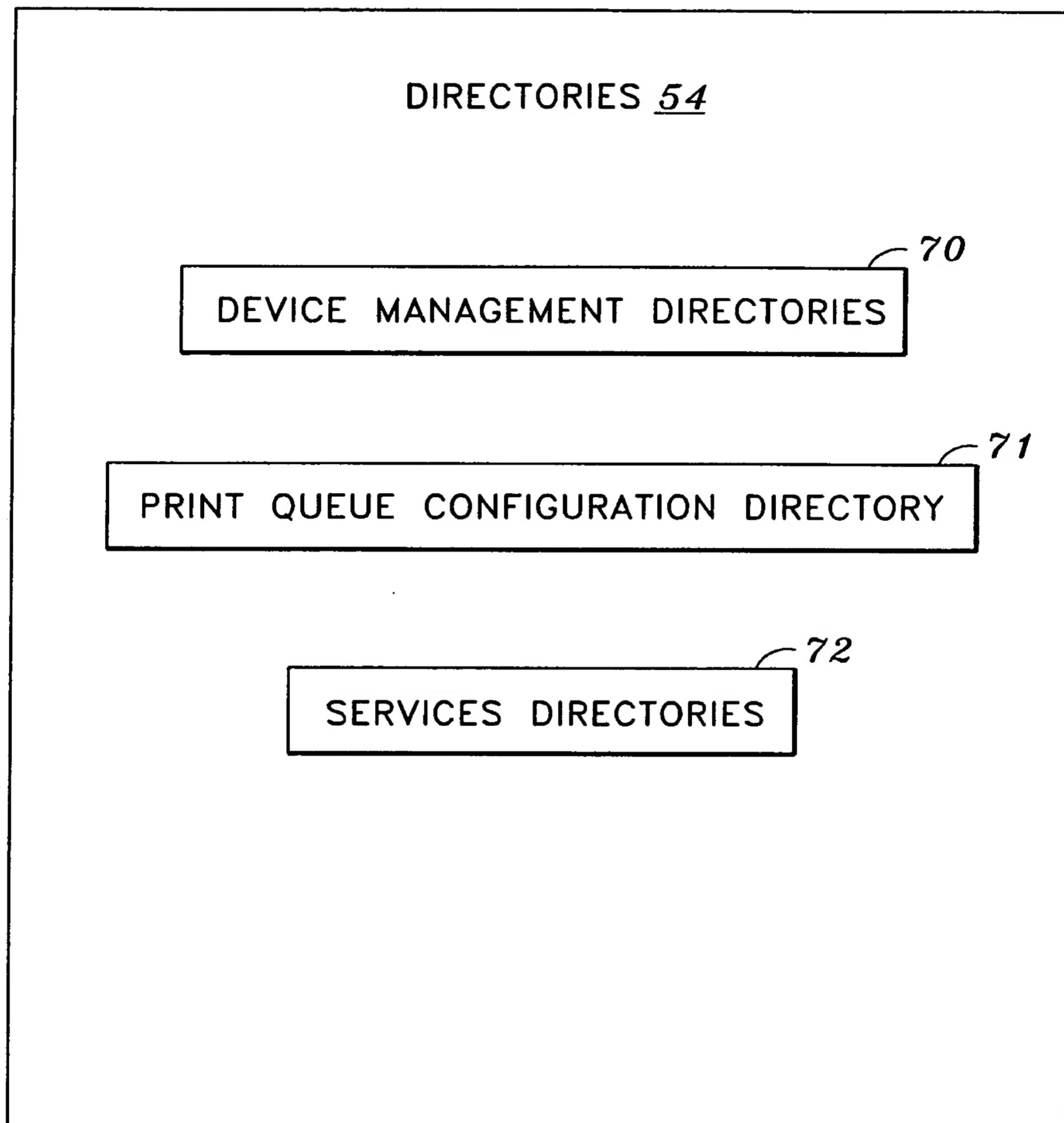


FIG. 3

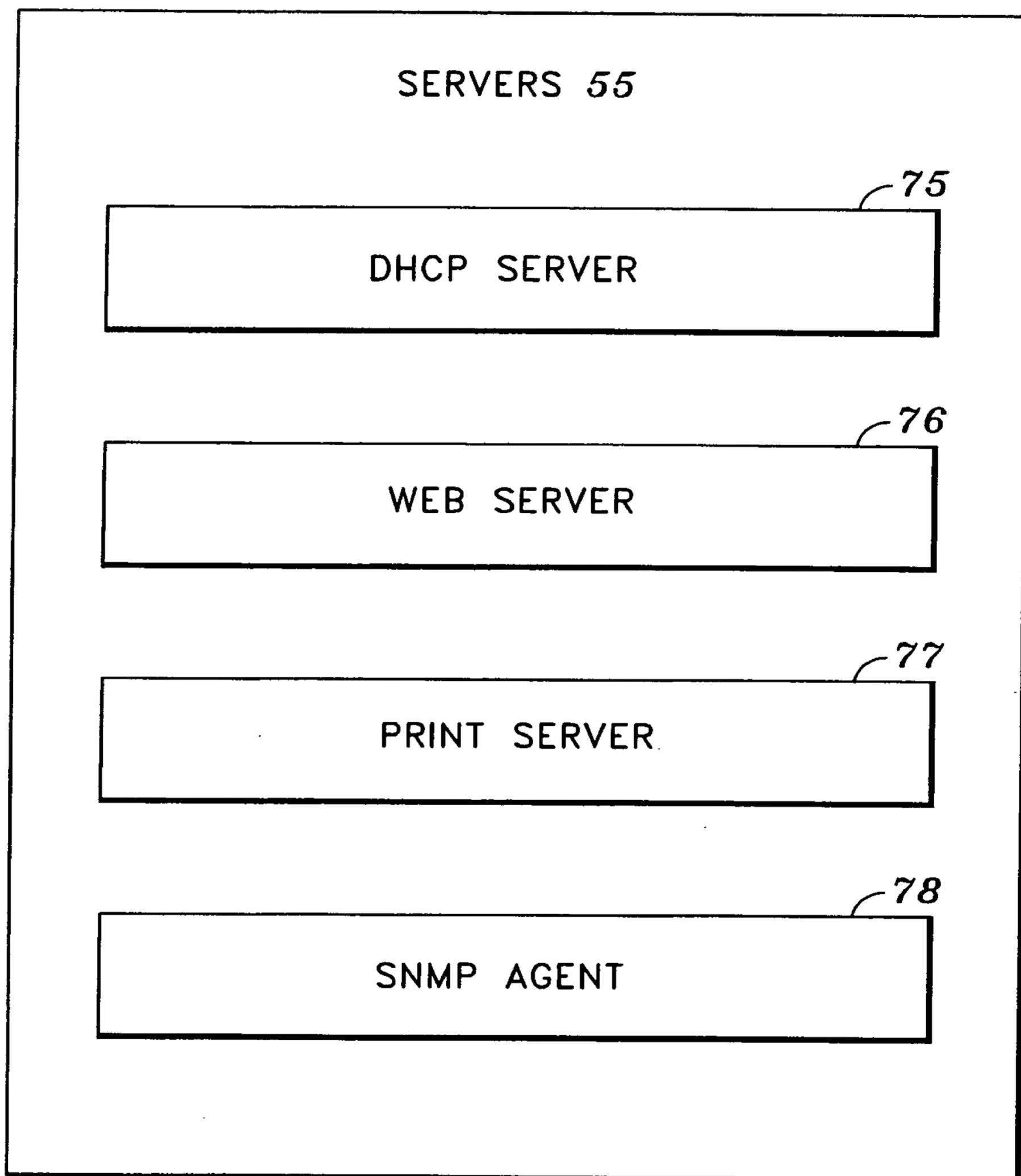
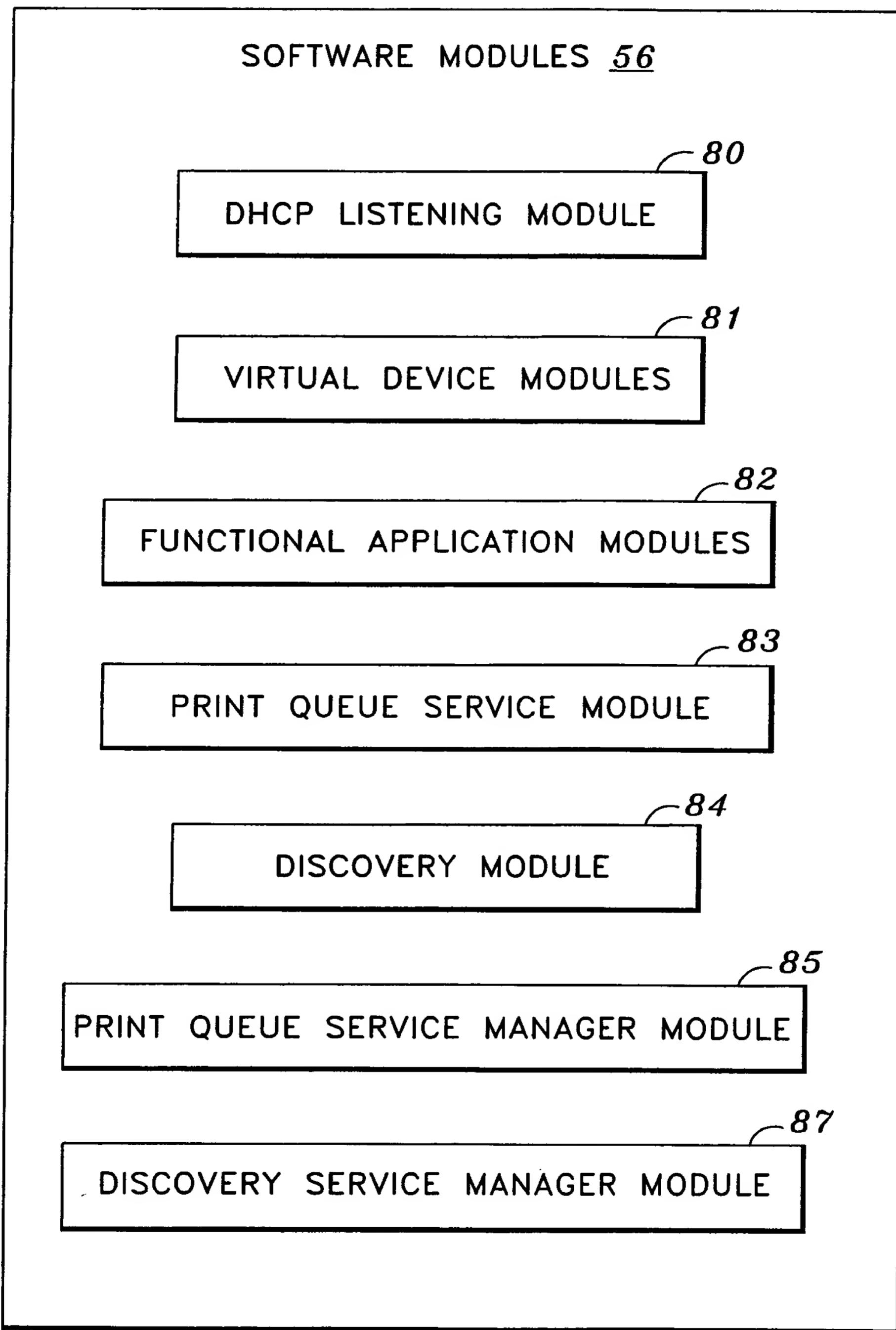


FIG. 4



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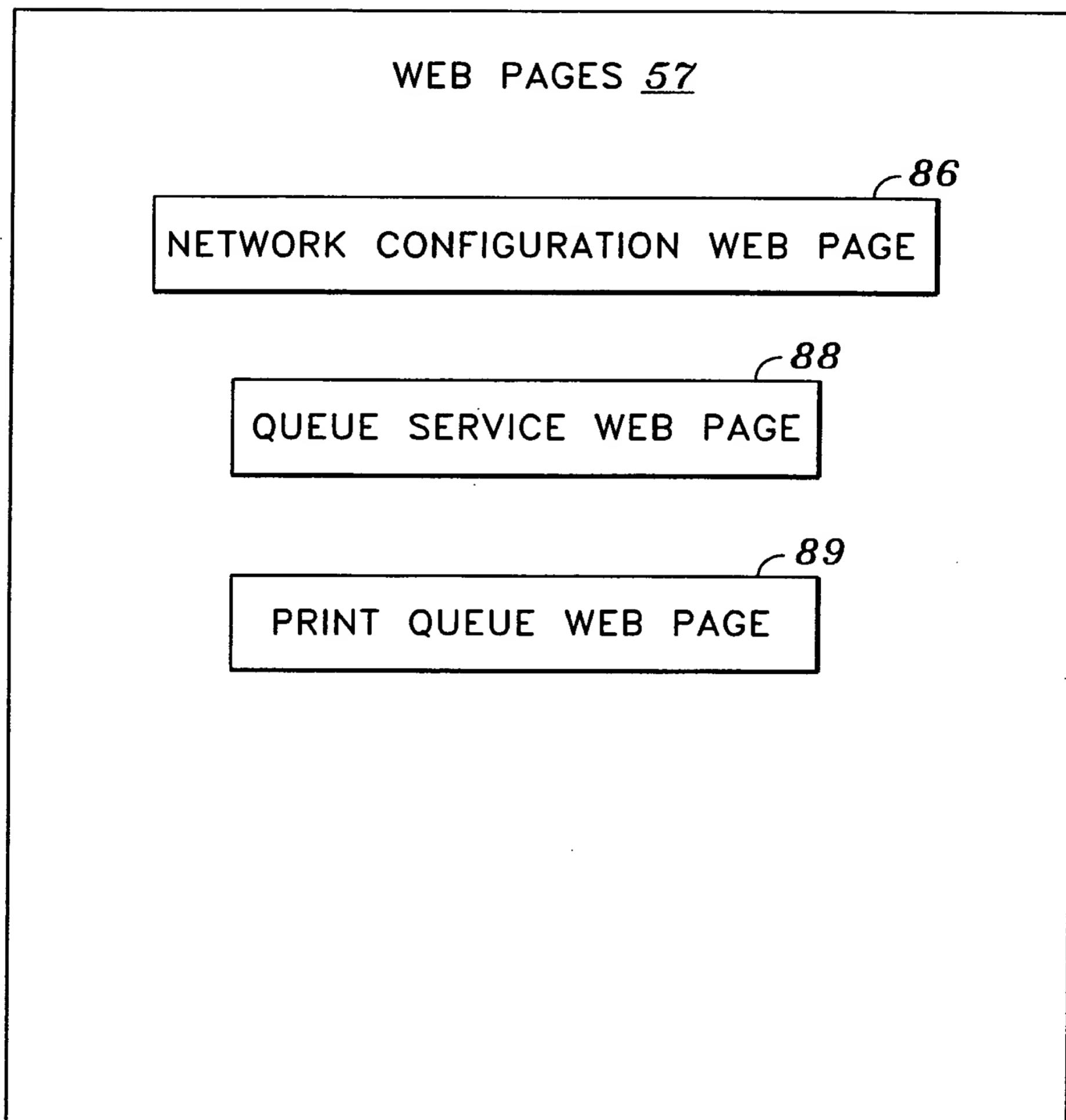


FIG. 6

DEVICE MANAGEMENT DIRECTORY 70

ENTRY 90	MAC ADDRESS 91	PRINT DEVICE TYPE 92	IP ADDRESS 93	NETWORK CONFIGURATION INFORMATION 94
Entry 1	00:00:85:69:0A:B3	Canon Laser	129.65.220.8	Domain Name, etc.
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
Entry N	--	--	--	--

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FIG. 7

PRINT QUEUE CONFIGURATION DIRECTORY 71

	IP ADDRESS 100	MAC ADDRESS 101	PRINT QUEUE NAME 102	PRINTING CAPABILITIES 103	SERVER 105
Entry 1	129.65.220.8	00:00:85:69:0A:B3	Canon Laser	Color, Letter, A4	Main A
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
ENTRY N	---	---	---	---	---

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FIG. 8

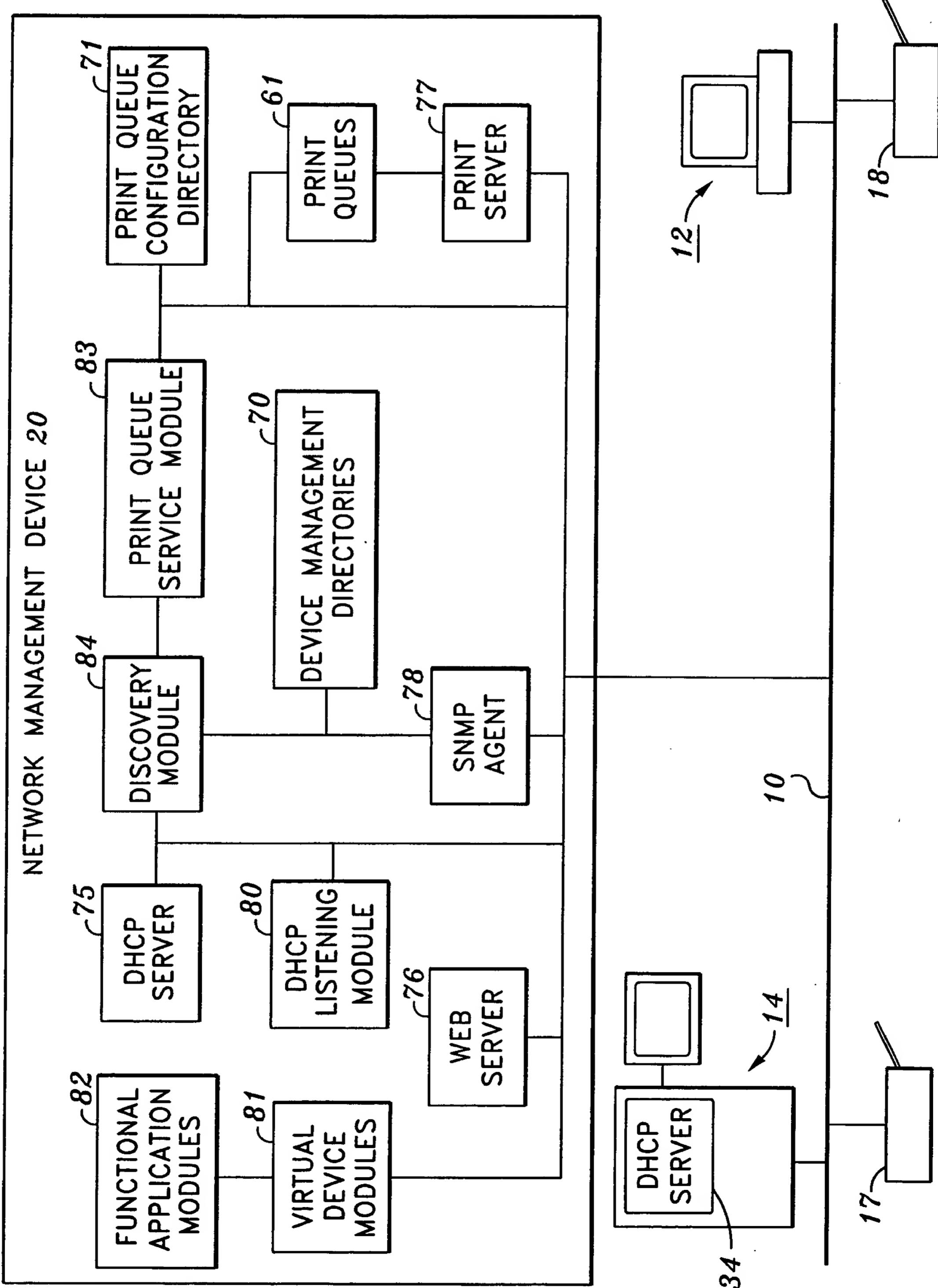


FIG. 9

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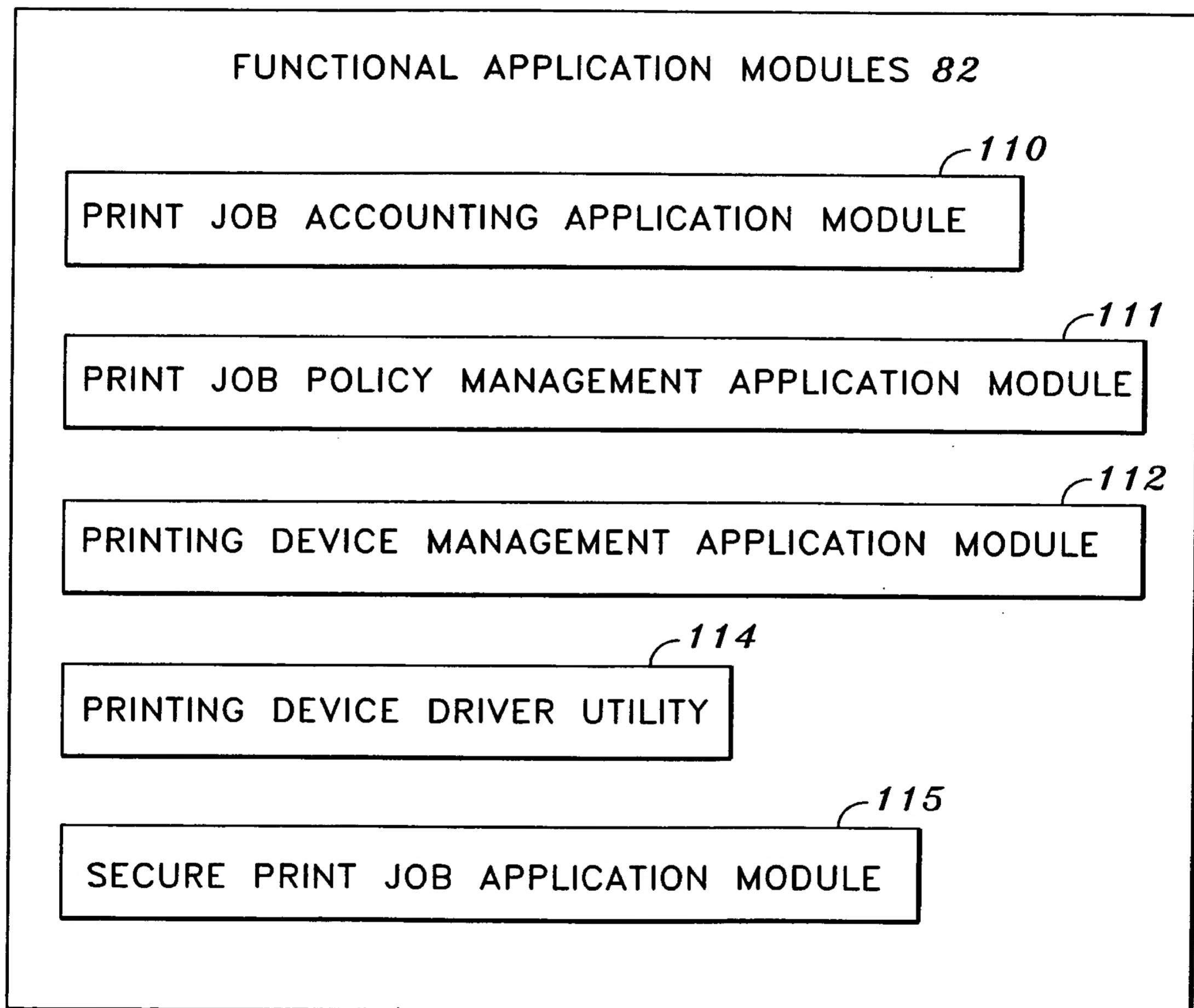


FIG. 10

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SERVICES DIRECTORIES 72

120

LOCAL SERVICES DIRECTORY

¹²² SUBNET ID	¹²⁴ SERVICE	¹²⁵ NMD ID
1	DISCOVERY	NMD 1
1	PRINT QUEUE	NMD 2

121

GLOBAL SERVICES DIRECTORY

¹²² SUBNET ID	¹²⁴ SERVICE	¹²⁵ NMD ID
1	PRINT QUEUE	NMD 1
1	DISCOV. SERV. MGR.	NMD 3
1	GLOBAL INFO SERV.	NMD 1

FIG. II

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GLOBAL SERVICES DIRECTORY <u>121</u>		
<i>122</i> SUBNET ID	<i>124</i> SERVICE	<i>125</i> NMD ID
1	MASTER	NMD 1
1	DISC. SERV. MGR.	NMD 3
1	GLOBAL INFO SERV.	NMD 1
1	PRINT QU. SERV. MGR.	NMD 3
•		
•		
•		
•		

FIG. 12

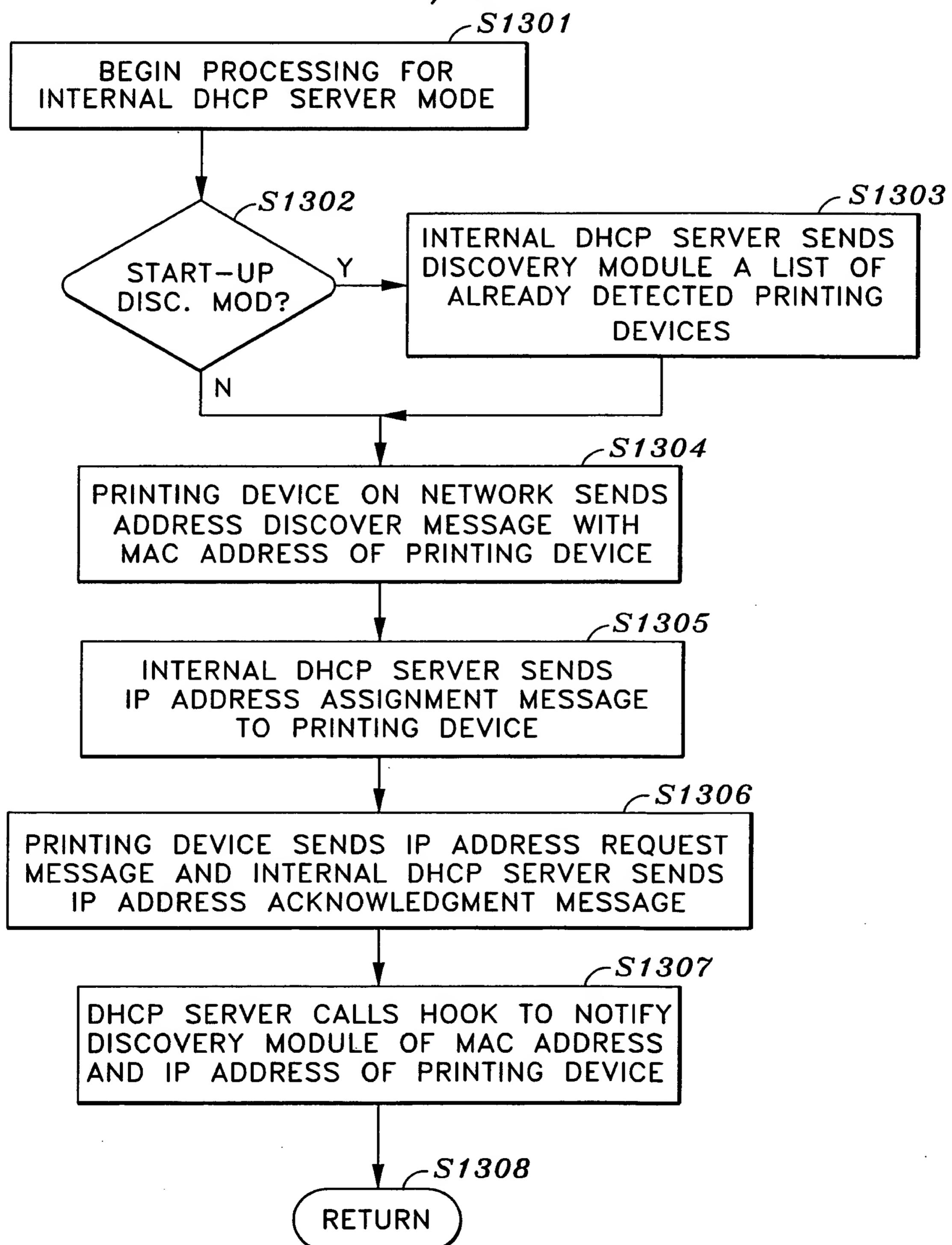


FIG.13A

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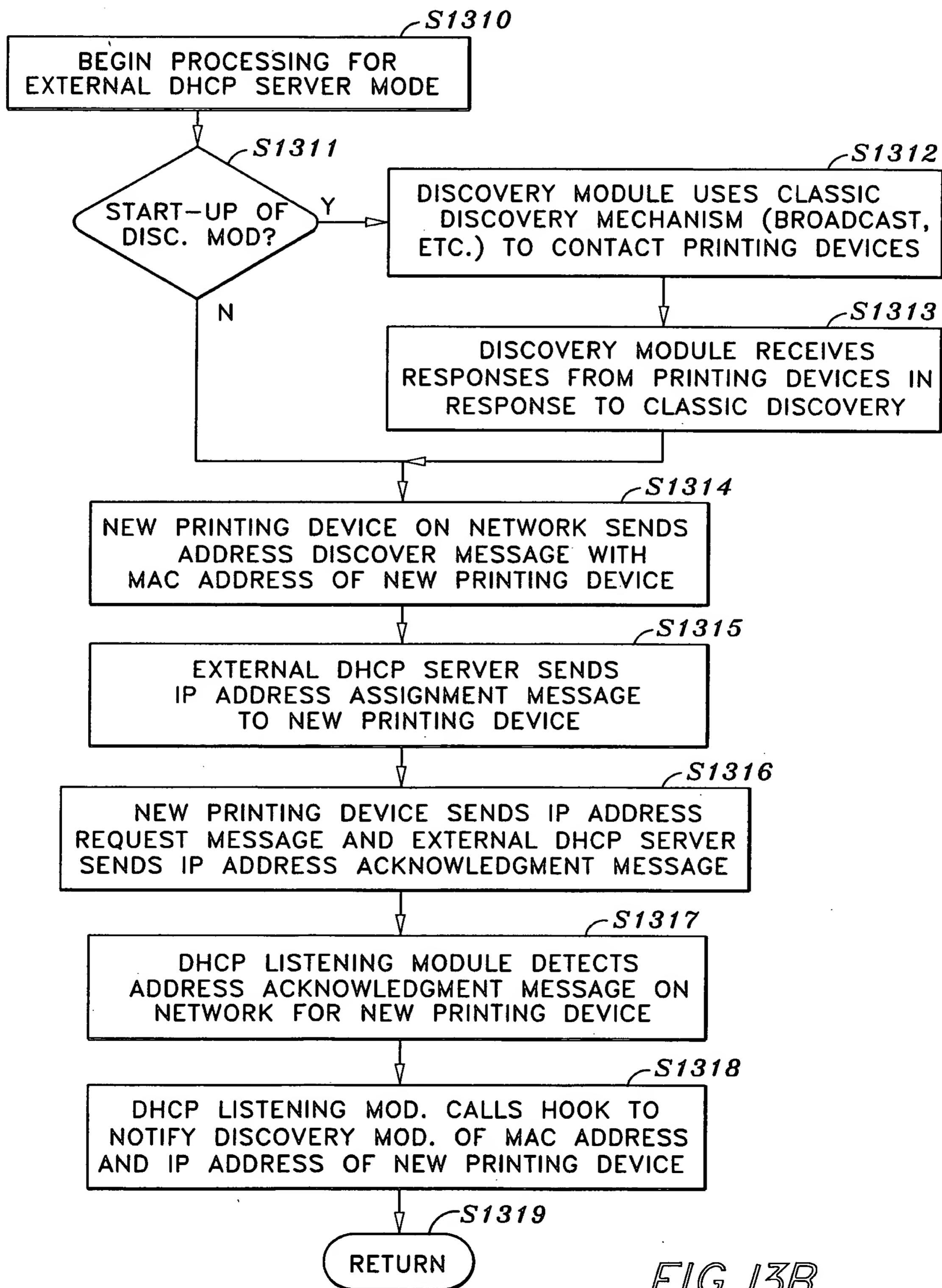


FIG. 13B

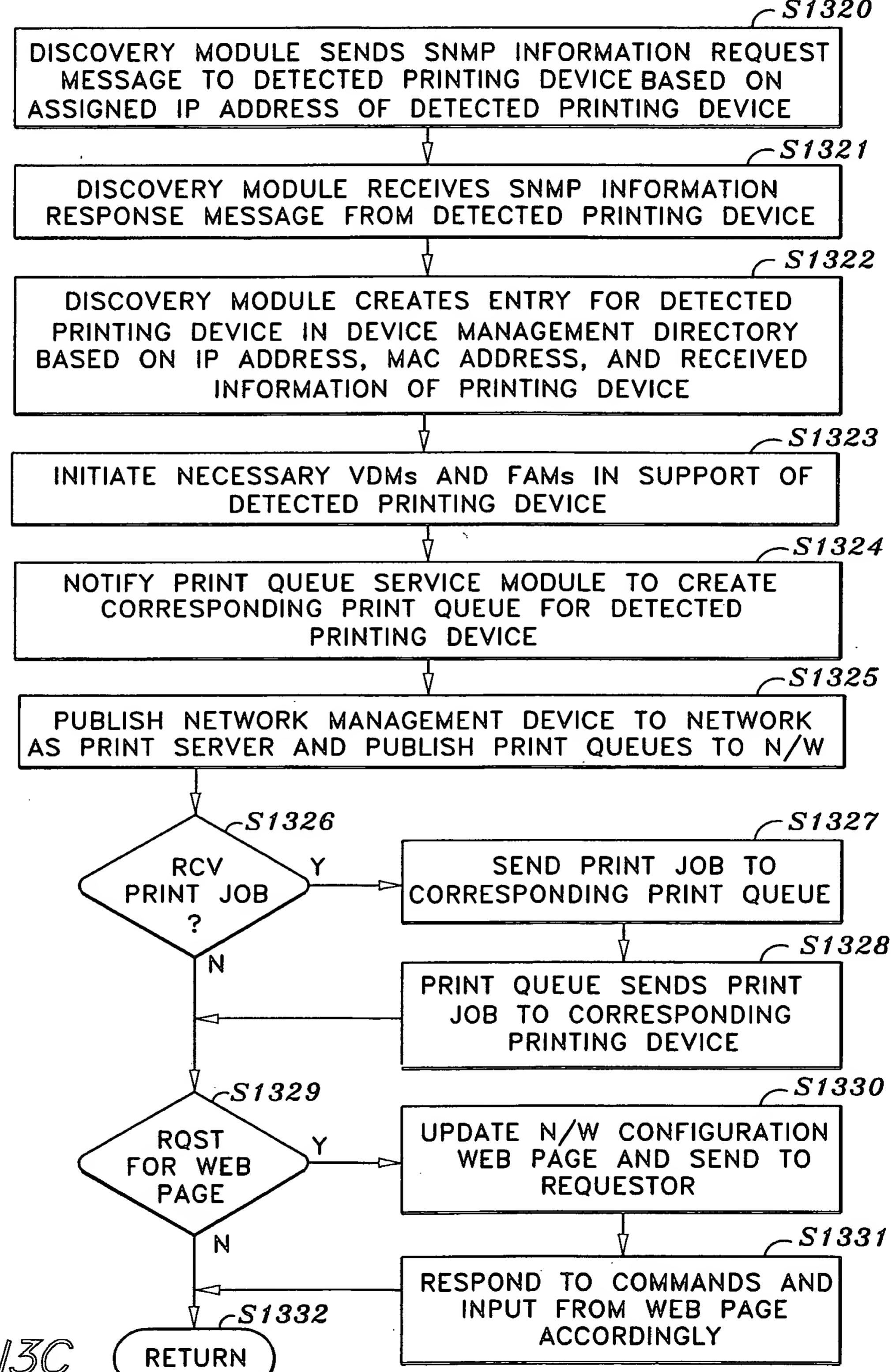


FIG. 13C

FIG. 14

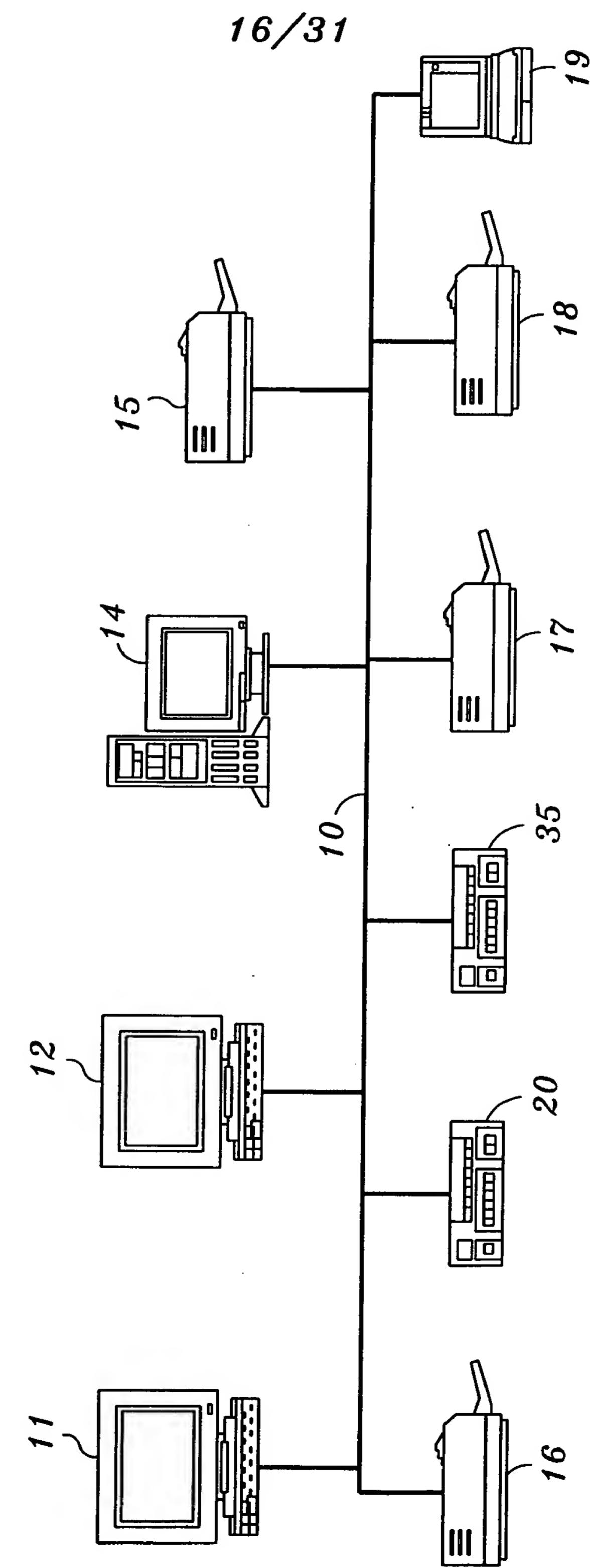


FIG. 15

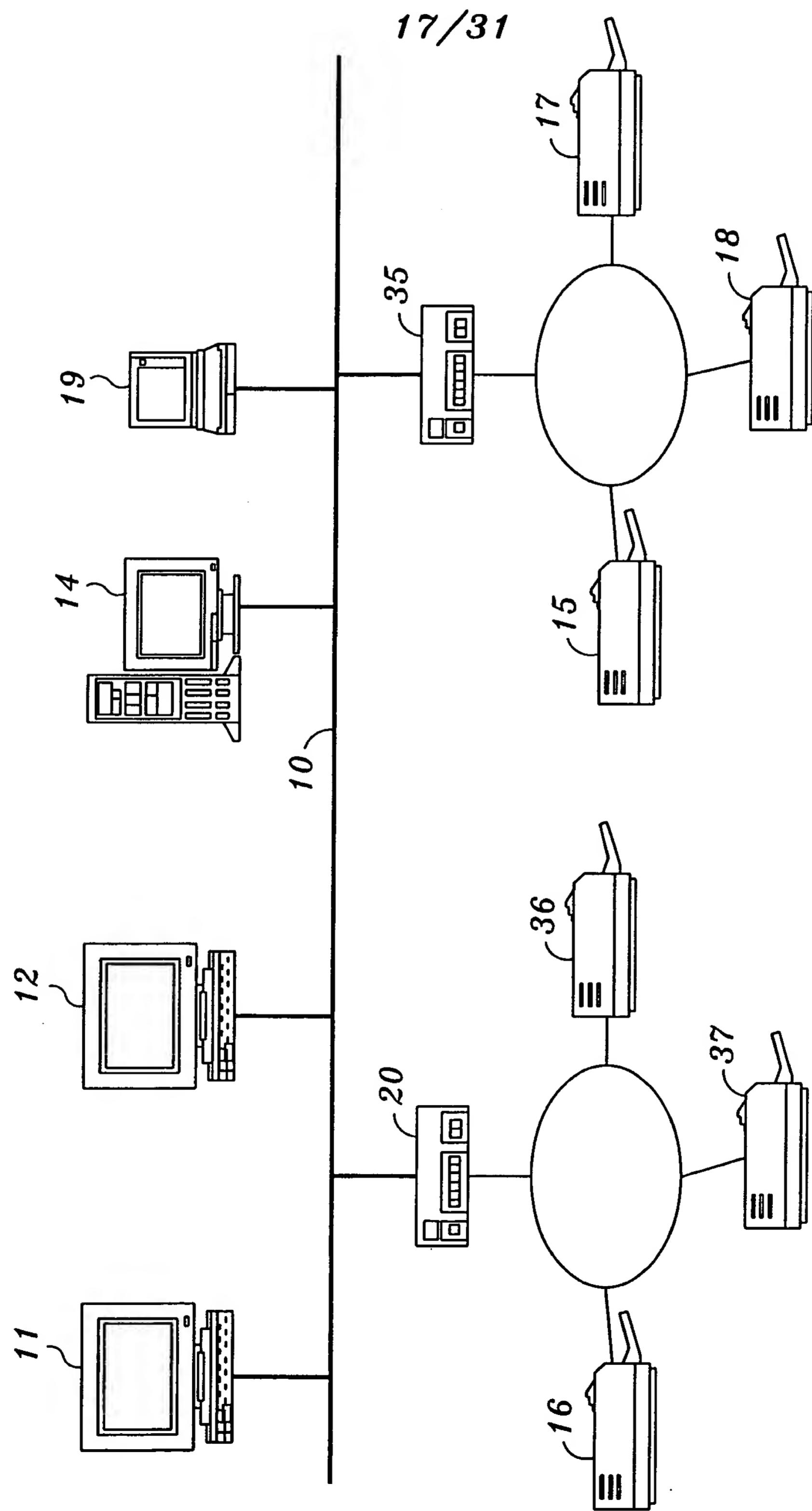


FIG. 16

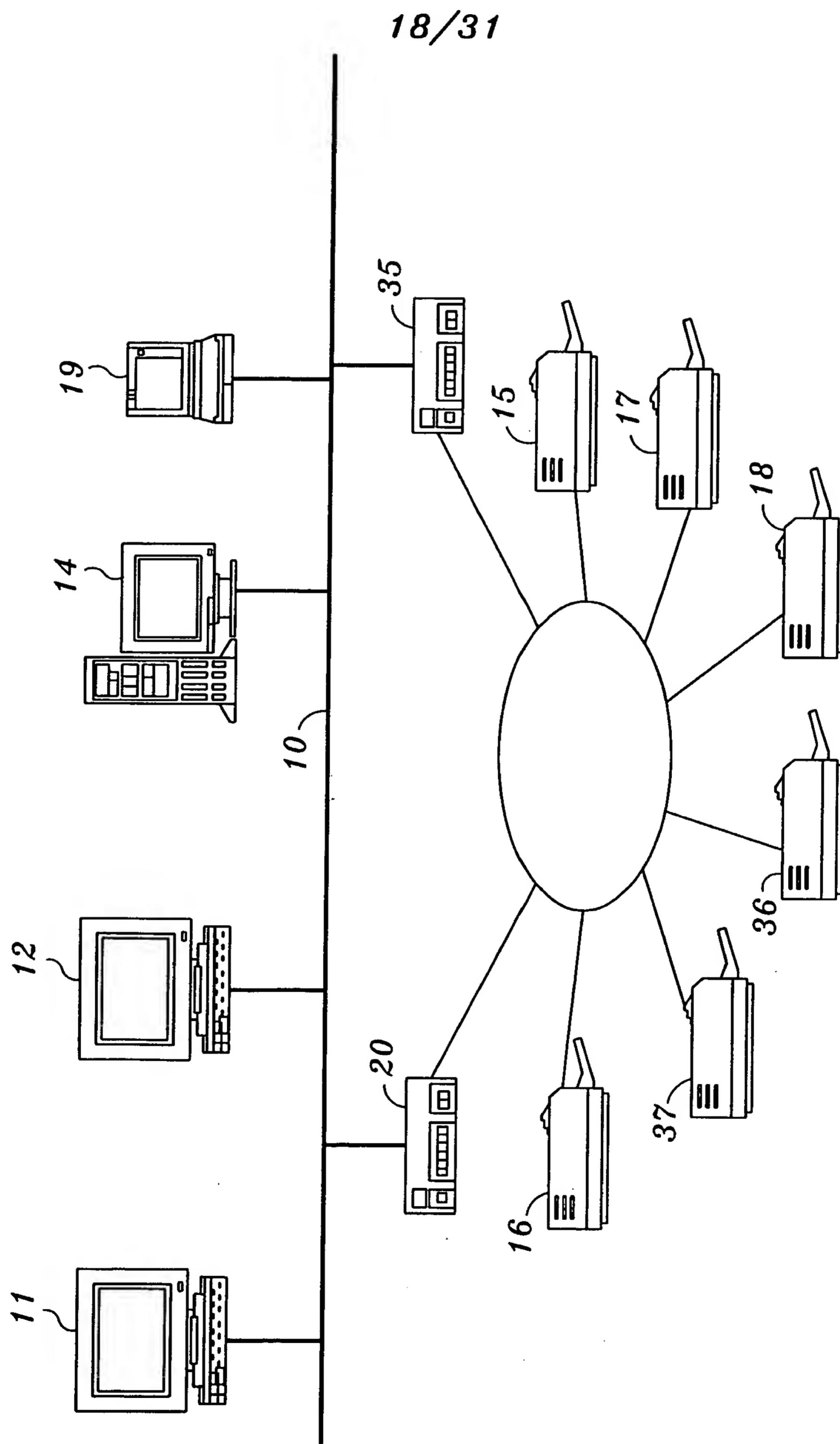


FIG. 17A

FIG. 17A

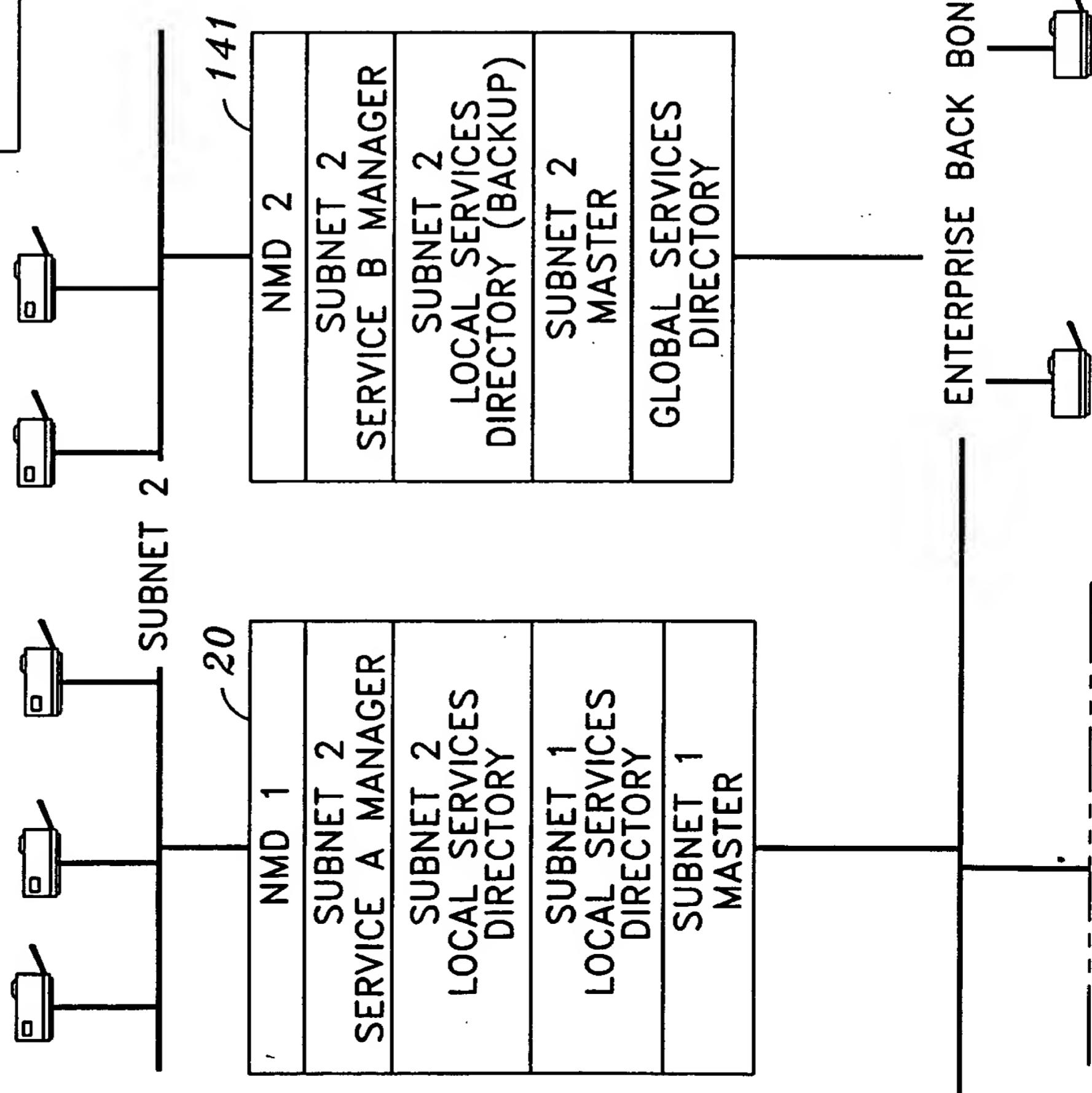
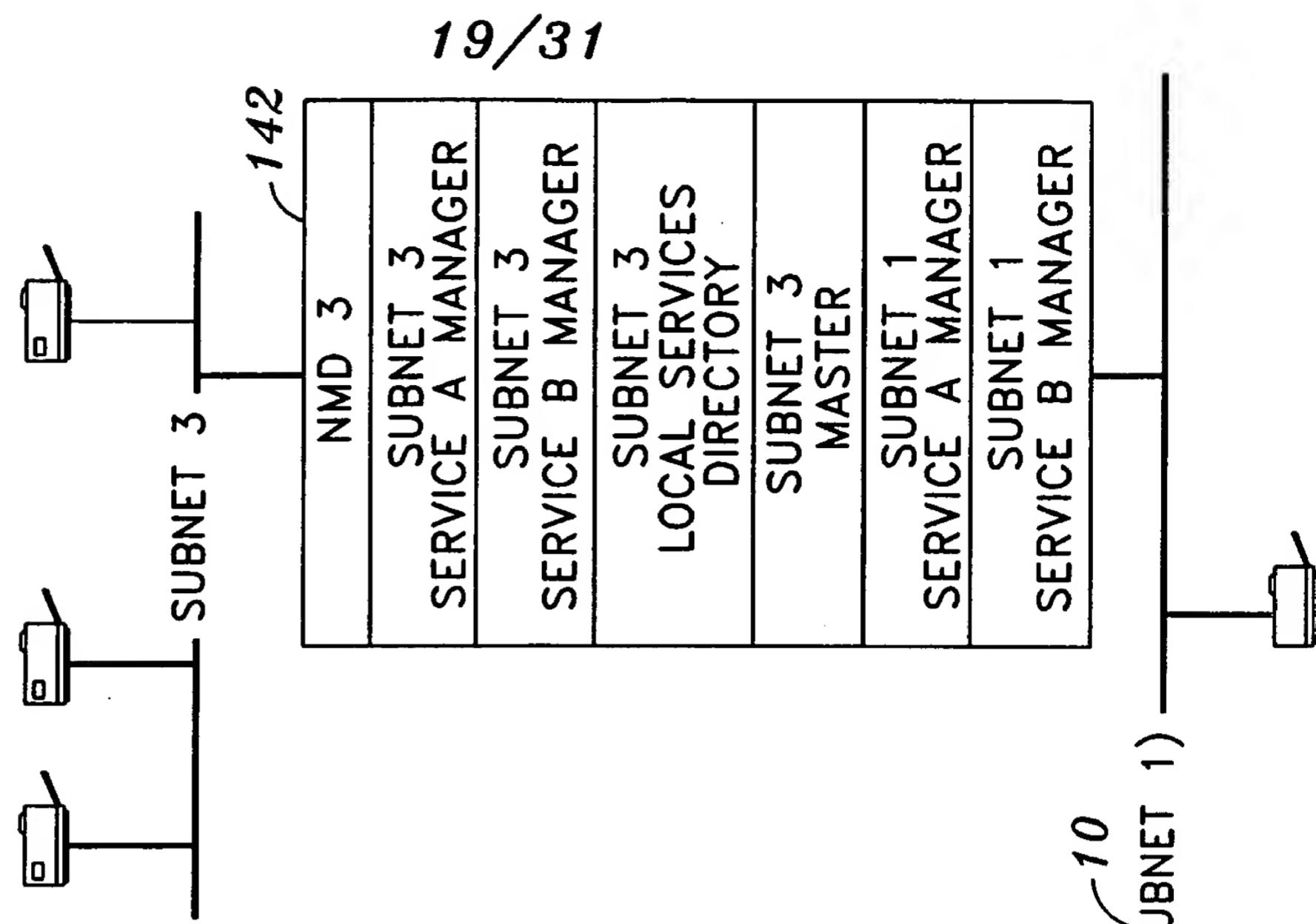


FIG. 17A

FIG. 17B



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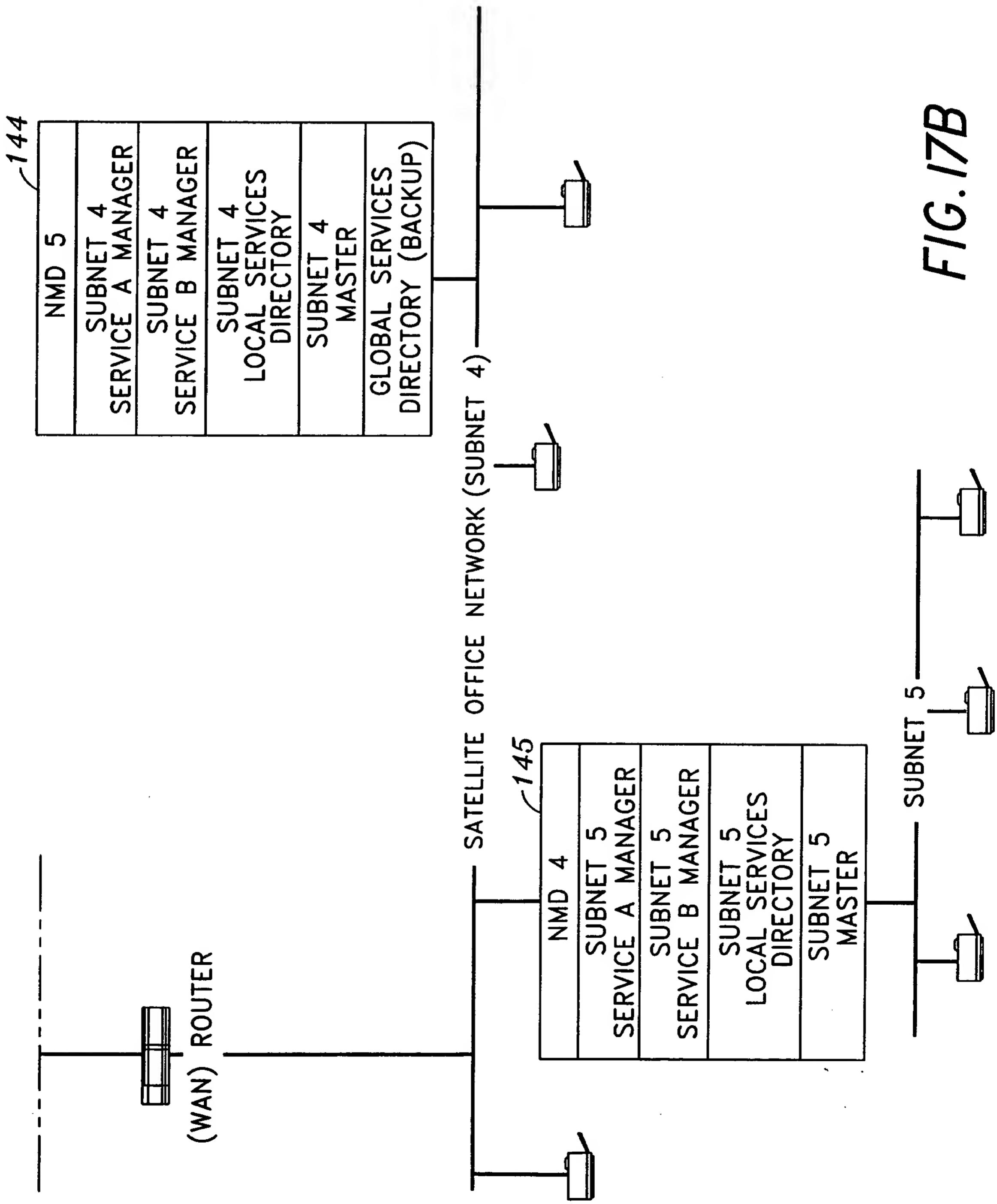


FIG. 18A

FIG. 18A

FIG. 18A
FIG. 18B

SUBNET	NMD 1	STATE
1	COMPONENT PRINTER QUEUE SERVICE	NOT RUNNING
1	DISCOVERY SERVICE	NOT RUNNING
1	LOCAL SERVICES DIRECTORY	RUNNING
1	MASTER	RUNNING
2	PRINTER QUEUE SERVICE	RUNNING
2	DISCOVERY SERVICE	NOT RUNNING
2	LOCAL SERVICES DIRECTORY	RUNNING
2	MASTER	NOT RUNNING
	GLOBAL SERVICES DIRECTORY	NOT RUNNING/BACKUP

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SUBNET	NMD 2	STATE
1	COMPONENT PRINTER QUEUE SERVICE	NOT RUNNING
1	DISCOVERY SERVICE	NOT RUNNING
1	LOCAL SERVICES DIRECTORY	NOT RUNNING/BACKUP
1	MASTER	NOT RUNNING
2	PRINTER QUEUE SERVICE	NOT RUNNING
2	DISCOVERY SERVICE	RUNNING
2	LOCAL SERVICES DIRECTORY	BACKUP
2	MASTER	RUNNING
	GLOBAL SERVICES DIRECTORY	RUNNING

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FIG. 18B

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SUBNET	NMD 3	COMPONENT	STATE
1	PRINTER QUEUE SERVICE		RUNNING
1	DISCOVERY SERVICE		RUNNING
1	LOCAL SERVICES DIRECTORY		NOT RUNNING/BACKUP
1	MASTER		NOT RUNNING
3	PRINTER QUEUE SERVICE		RUNNING
3	DISCOVERY SERVICE		RUNNING
3	LOCAL SERVICES DIRECTORY		RUNNING
3	MASTER		RUNNING
3	GLOBAL SERVICES DIRECTORY		NOT RUNNING/BACKUP

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SUBNET	NMD 4	COMPONENT	STATE
4	PRINTER QUEUE SERVICE		RUNNING
4	DISCOVERY SERVICE		RUNNING
4	LOCAL SERVICES DIRECTORY		RUNNING
4	MASTER		RUNNING
4	GLOBAL SERVICES DIRECTORY		BACKUP

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SUBNET	NMD 5	COMPONENT	STATE
4	PRINTER QUEUE SERVICE		NOT RUNNING
4	DISCOVERY SERVICE		NOT RUNNING
4	LOCAL SERVICES DIRECTORY		NOT RUNNING/BACKUP
4	MASTER		NOT RUNNING
5	PRINTER QUEUE SERVICE		RUNNING
5	DISCOVERY SERVICE		RUNNING
5	LOCAL SERVICES DIRECTORY		RUNNING
5	MASTER		RUNNING
5	GLOBAL SERVICES DIRECTORY		NOT RUNNING/BACKUP

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FIG. 19

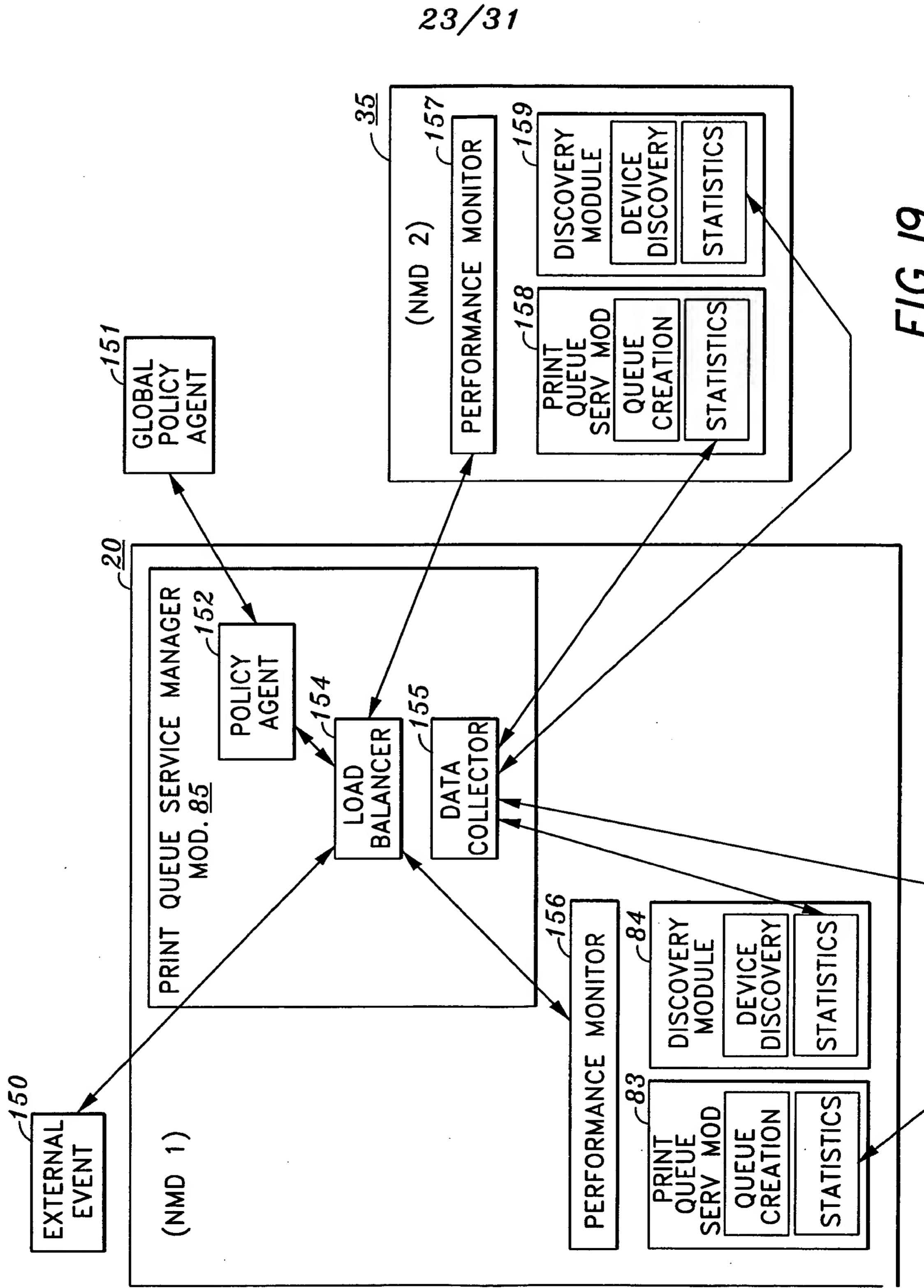
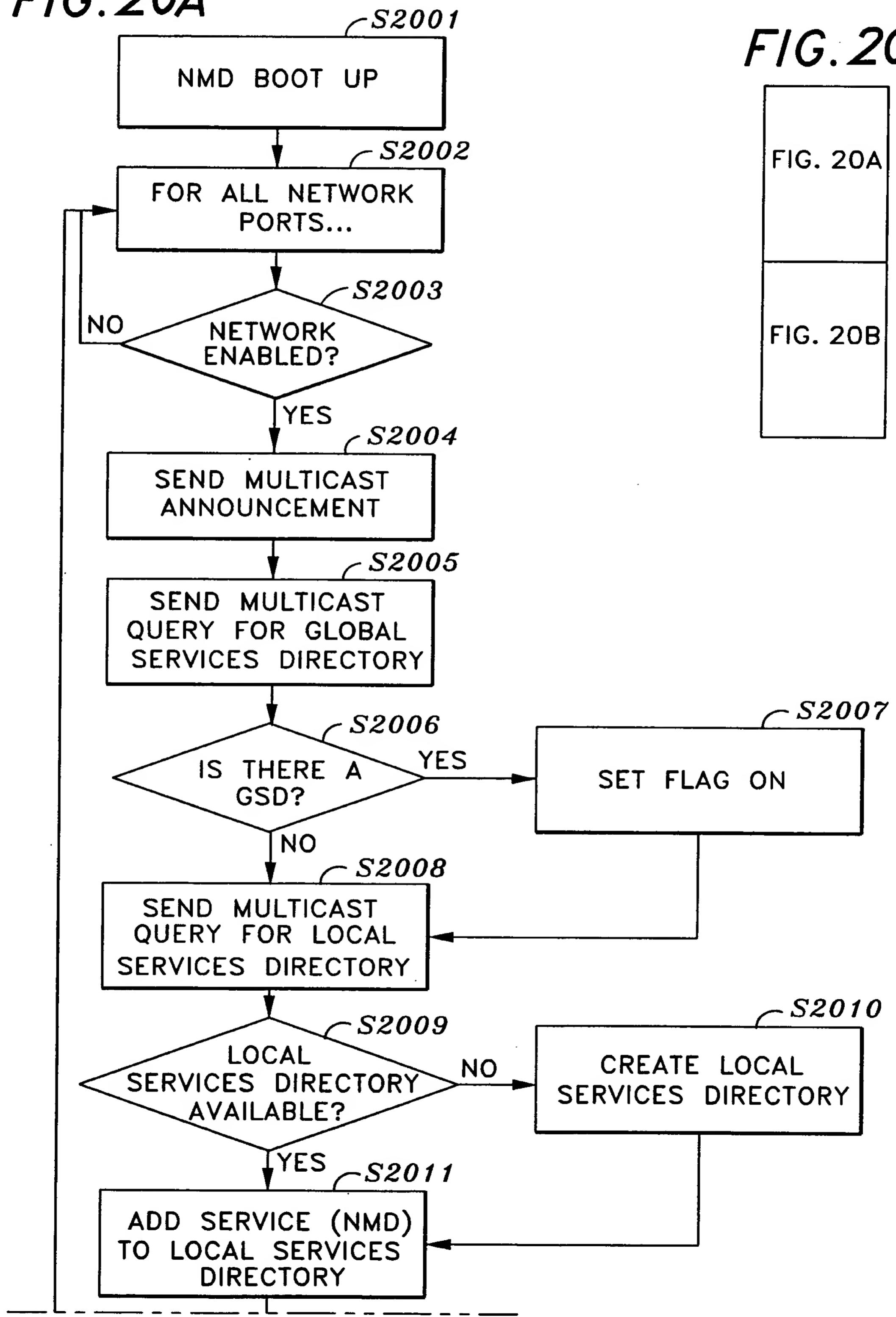


FIG. 20A



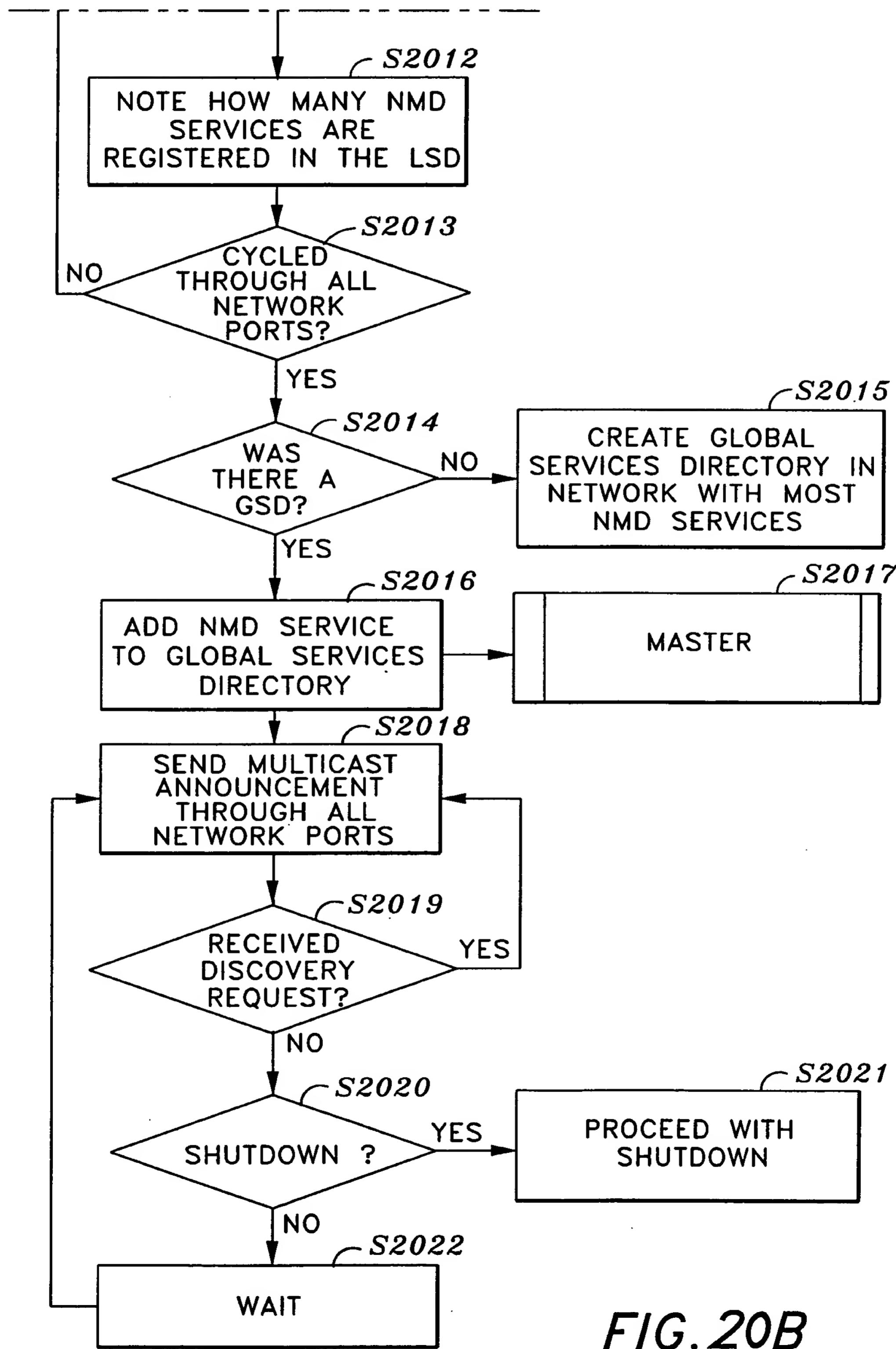
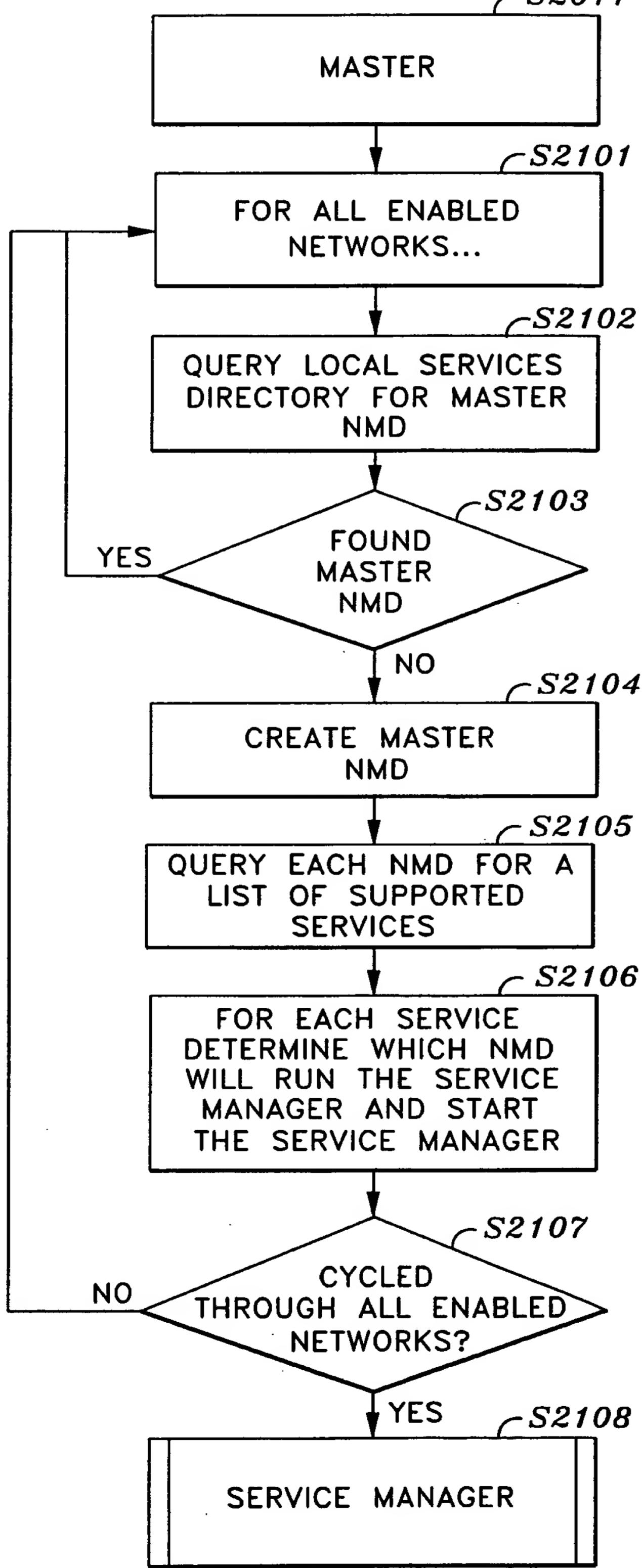


FIG. 20B



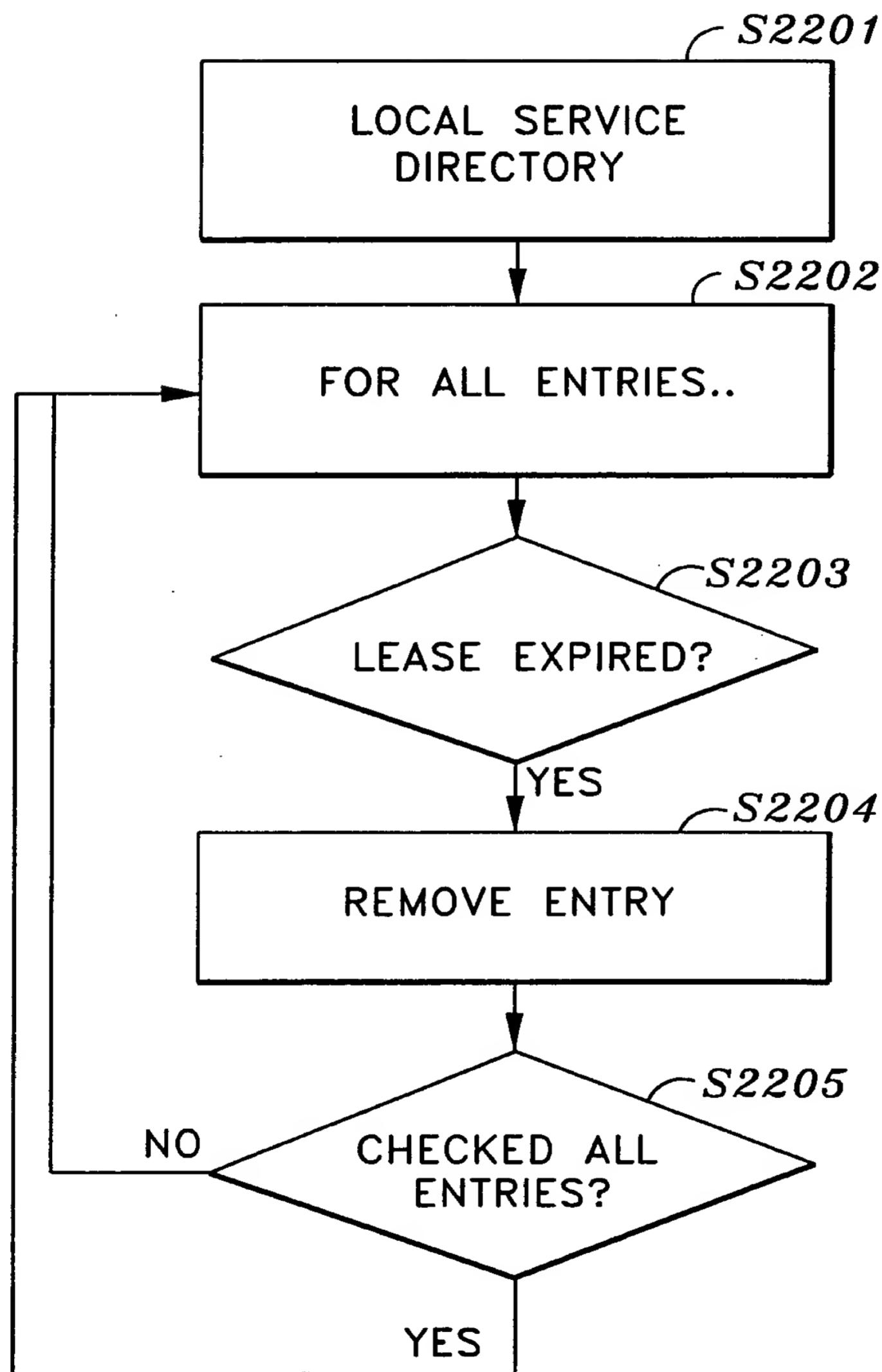


FIG. 22

FIG. 23A

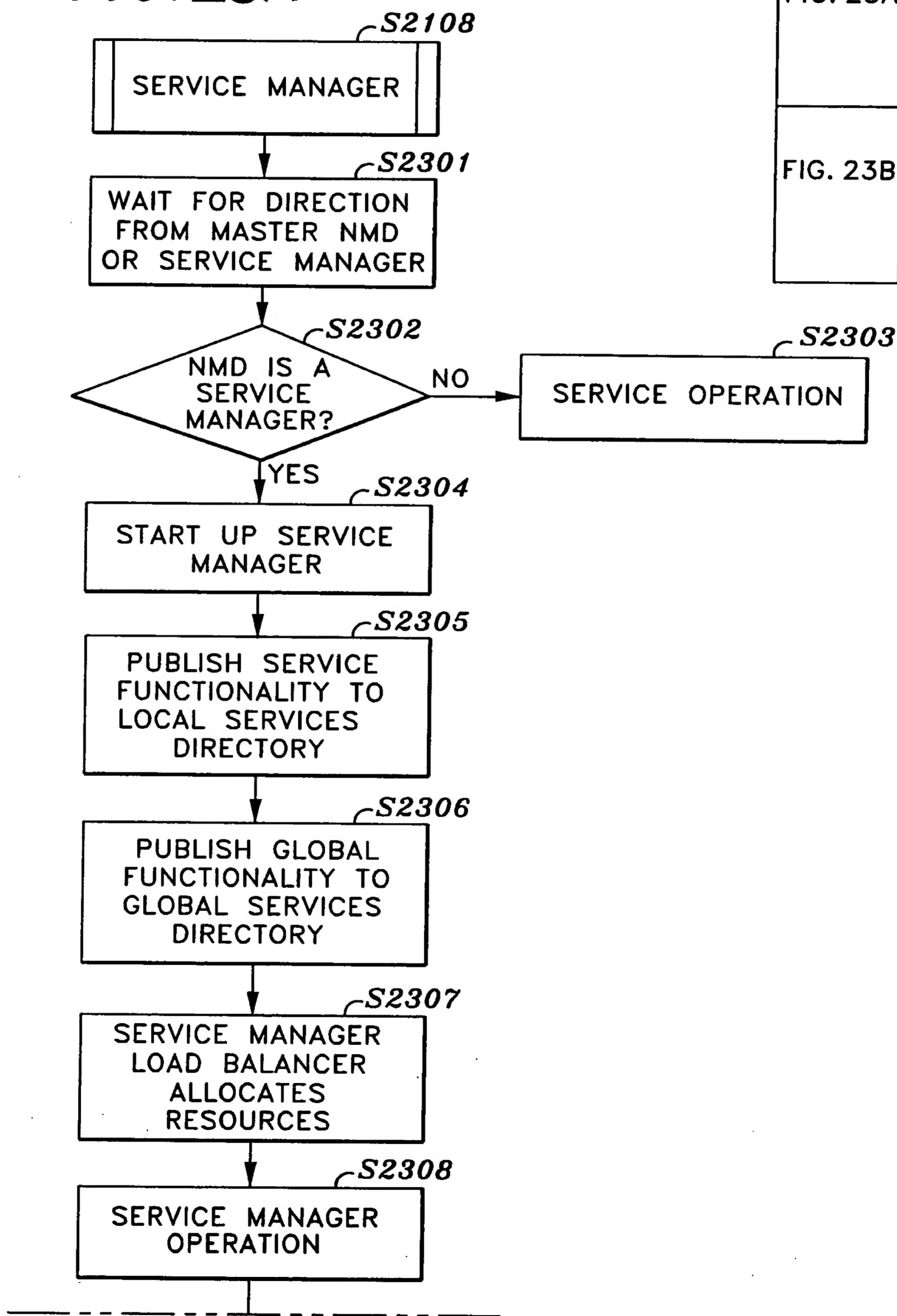


FIG. 23A

FIG. 23B

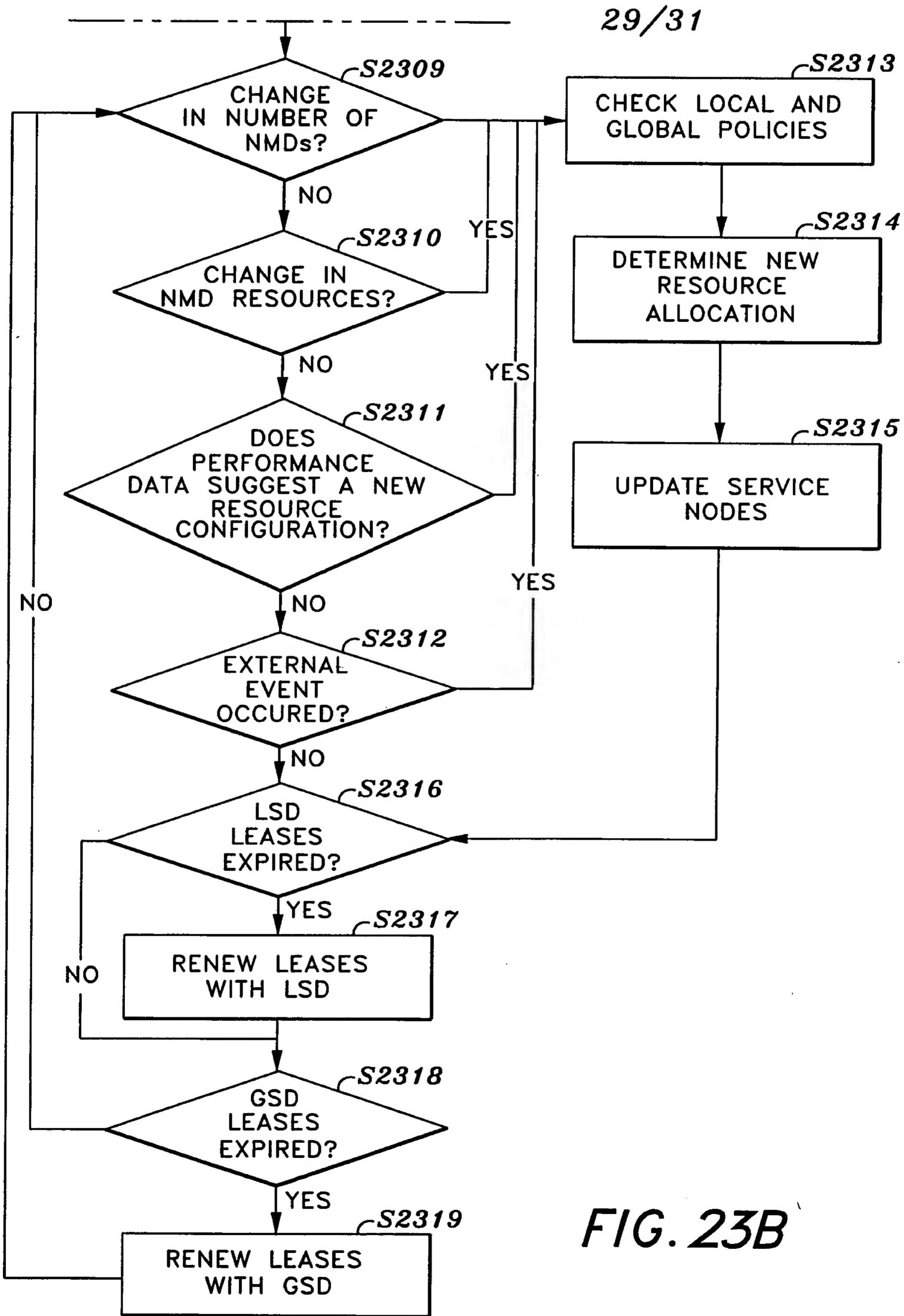
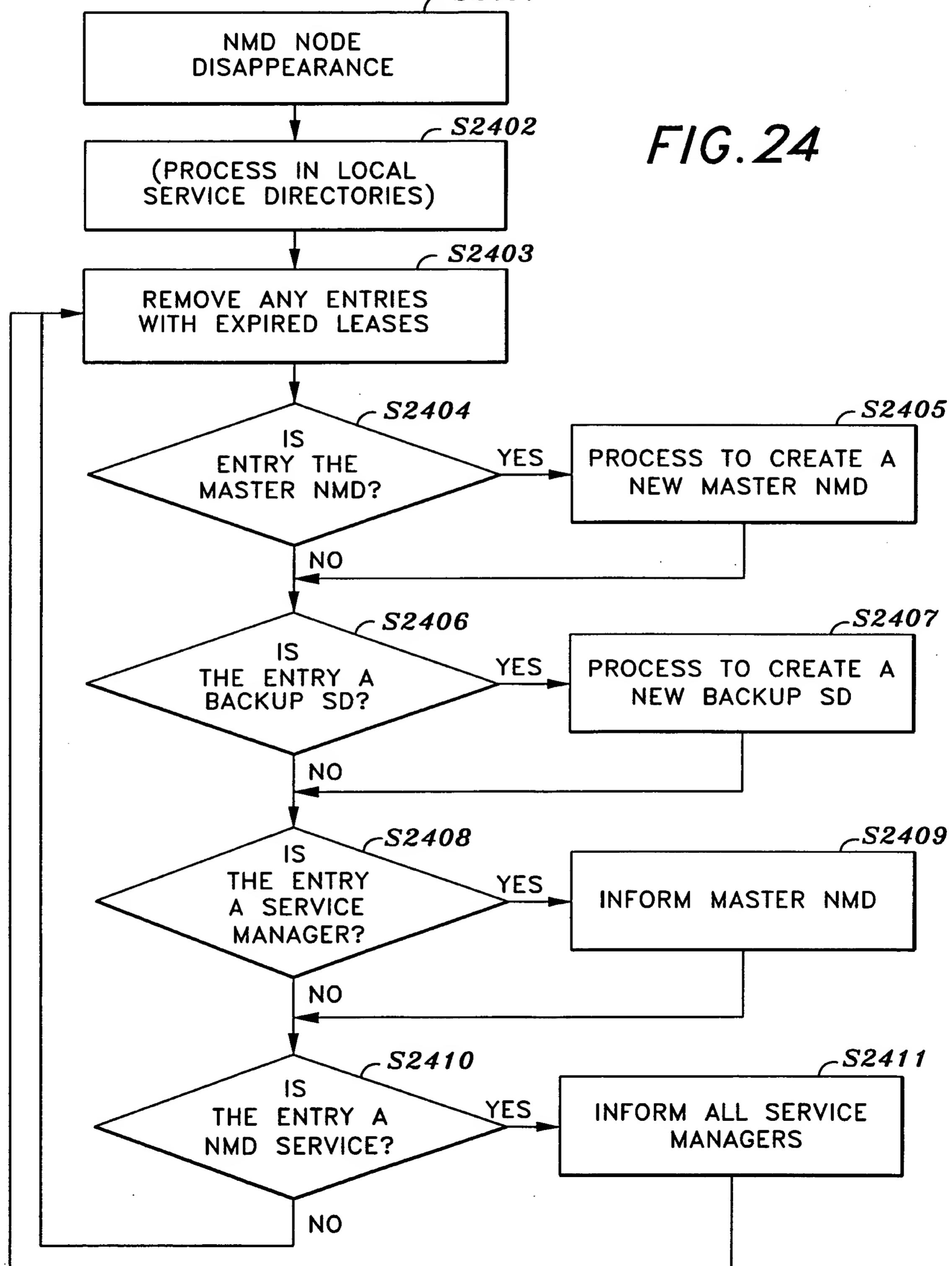


FIG. 23B



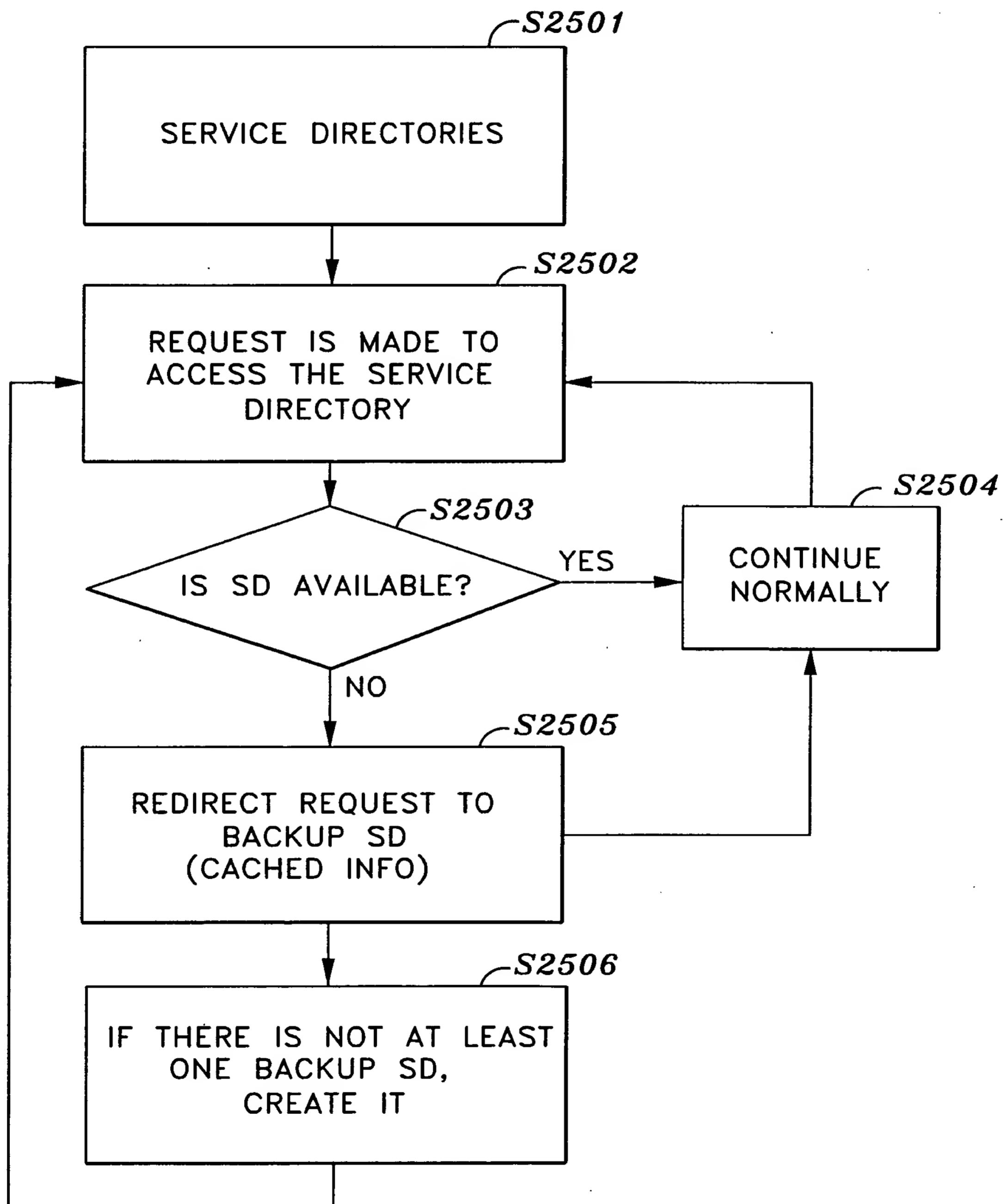


FIG.25